

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended): An extraction unit comprising:  
a carrier having a bottom surface, and;  
an extraction device for mating with the carrier having a first end and a second end,  
comprising: [:]  
a carrier-receiving portion at the first end comprising at least one flange; and  
a conduit interconnected to the carrier-receiving portion; the conduit extending  
between a first opening at the carrier-receiving portion and a second opening at the second end;  
wherein the carrier mates with the carrier-receiving portion, closes the first opening, seals  
the first opening to prevent fluid flow through the bottom surface, and forms a reservoir and  
wherein the second end is adapted to mate with a vessel such that the vessel is in fluid  
communication with the conduit.

2. (Previously Presented): The extraction unit of claim 1 wherein the reservoir has a  
volume of approximately 0.01 to 250  $\mu$ L.

3. (Canceled)

4. (Previously Presented): The extraction unit of claim 1 wherein specifically transferred  
material transferred to the carrier by microdissection and non-specifically transferred material  
are present on the carrier and some non-specifically transferred material is excluded from the  
reservoir and some specifically transferred material transferred is included in the reservoir.

5. (Withdrawn): An extraction unit comprising:  
a carrier, and;  
an extraction device for mating with the carrier having a first end and a second end,  
comprising;  
a carrier-receiving portion at the first end; and  
a conduit interconnected to the carrier-receiving portion; the conduit extending  
between a first opening at the carrier-receiving portion and a second opening at the second end;  
wherein the carrier receiving portion mates with the carrier, closes the first opening, seals  
the first opening to prevent fluid flow, and forms a reservoir; and  
wherein at least a portion of an extending feature on the carrier is excluded from the reservoir.

6. (Withdrawn): An extraction device for mating with a carrier comprising:  
a carrier-receiving portion at a first end; and  
a conduit interconnected to the carrier-receiving portion; the conduit extending between  
the carrier receiving portion and a second end;  
wherein the carrier-receiving portion is adapted to receive a carrier having a transfer film  
such that the reservoir is formed and at least a portion of the transfer film is disposed within the  
reservoir.

7. (Withdrawn): The extraction device of claim 6 wherein the carrier-receiving portion is  
adapted to receive the carrier such that at least a portion of the transfer film is disposed outside  
the reservoir.

8. (Withdrawn): The extraction device of claim 7 wherein the at least a portion of the  
transfer film disposed outside the reservoir includes at least one stand-off portion.

9. (Withdrawn): The extraction device of claim 7 wherein at least a portion of the transfer film disposed outside the reservoir includes matter transferred to the transfer film by non-specific transfer microcapture.

10. (Withdrawn): The extraction device of claim 6 wherein the at least a portion of the transfer film disposed within the reservoir includes matter transferred to the transfer film by specific transfer microcapture.

11. (Withdrawn): An extraction device for mating with a carrier comprising:  
a carrier-receiving portion at a first end; and  
a conduit interconnected to the carrier-receiving portion;  
wherein the carrier-receiving portion is adapted to receive a carrier to form a reservoir and further adapted to selectively cover at least a portion of the carrier, and  
wherein the at least a portion of the carrier includes an extending feature, and at least a portion of the extending feature is sealed from the reservoir.

12. (Withdrawn): The extraction device of claim 11 wherein non-specifically transferred material is on the portion of the extending feature sealed from the reservoir.

13. (Withdrawn): The extraction device of claims 11 or 12 wherein the extending feature comprises one or more stand-offs or spacers.

14-78 (canceled)

79. (Withdrawn): A method for extracting matter on a carrier comprising the steps of:  
providing a carrier having a transfer film;  
transferring matter to the transfer film;

providing an extraction device with a conduit having a first opening and a second opening;  
    mating the carrier to the extraction device to close the first opening;  
    forming a reservoir with the transfer film;  
    providing fluid to the reservoir via the second opening in the conduit to extract matter from the transfer film; and  
    removing the fluid from the reservoir.

80. (Withdrawn): The method of claim 79 wherein the step of transferring matter to the transfer film includes transferring matter to the transfer film by specific transfer microcapture; and

    further including the step of disposing matter that is adhered to the transfer film by specific transfer microcapture within the reservoir.

81. (Withdrawn): The method of claim 79 wherein the step of transferring matter to the transfer film includes transferring matter to the transfer film by non-specific transfer microcapture; and

    further including the step of substantially excluding matter that is adhered to the transfer film by non-specific transfer microcapture from the reservoir.

82. (Withdrawn) The method of claim 79 wherein the step of providing a carrier having a transfer film includes providing a carrier with at least one stand-off portion; and further including the step of covering the at least one stand-off portion.

83-92 (Canceled)

93. (Withdrawn): An extraction unit comprising:  
    a carrier having a bottom surface; and

a device adapted for mating with the carrier, the device having;  
a carrier-receiving portion at a first end; and  
a conduit interconnected to the carrier-receiving portion, the conduit having a first opening at the carrier-receiving portion;  
wherein the carrier is removably attached to the device at the carrier-receiving portion such that the first opening is closed by the bottom surface to prevent fluid flow through the bottom surface and to form a reservoir with the bottom surface and at least a portion of the conduit and wherein the device excludes at least a portion of the bottom surface of the carrier from the reservoir.

94. (Withdrawn): An extraction unit comprising:  
a carrier having a bottom surface; and  
a device adapted for mating with the carrier, the device having;  
a carrier-receiving portion at a first end; and  
a conduit interconnected to the carrier-receiving portion;  
wherein the device mates with the carrier at the carrier-receiving portion to form a reservoir and wherein the device excludes at least a portion of the bottom surface of the carrier from the reservoir; and  
wherein the bottom surface of the carrier has extending features and the extending features are excluded from the reservoir.

95. (Withdrawn): An extraction unit comprising:  
a carrier having a bottom surface; and  
a device adapted for mating with the carrier, the device having;  
a carrier-receiving portion at a first end; and  
a conduit interconnected to the carrier-receiving portion;

wherein the device mates with the carrier at the carrier-receiving portion to form a reservoir and wherein the device excludes at least a portion of the bottom surface of the carrier from the reservoir; and

wherein the bottom surface of the carrier has extending features and the extending features are excluded from the reservoir; and

wherein the extending features comprise one or more stand-offs or spacers.

96. (Withdrawn): An extraction unit comprising:

a carrier having a bottom surface; and

a device adapted for mating with the carrier, the device having;

a carrier-receiving portion at a first end; and

a conduit interconnected to the carrier-receiving portion;

wherein the device mates with the carrier at the carrier-receiving portion to form a reservoir and wherein the device excludes at least a portion of the bottom surface of the carrier from the reservoir; and

wherein the bottom surface of the carrier has a transfer film and at least a portion of the transfer film is excluded from the reservoir.

97. (Withdrawn): The extraction unit of claim 93 wherein the bottom surface of the carrier has a non-specifically transferred material and specifically transferred material that is transferred to the bottom surface by microdissection and at least a portion of the non-specifically transferred material is excluded from the reservoir and at least a portion of the specifically transferred material is included in the reservoir.

98. (Withdrawn): The extraction unit of claim 93 wherein the extraction device has a second end, the second end being adapted to mate with a vessel such that the vessel is in fluid communication with the reservoir.

99. (Withdrawn): The extraction unit of claim 98 wherein the vessel is a centrifuge tube or a microtiter plate.

100. (Currently Amended): An extraction unit comprising:  
a carrier having a bottom surface; and  
a device adapted for mating with the carrier, the device ~~having~~ comprising: [;]  
a carrier-receiving portion at a first end comprising at least one flange; and  
a conduit interconnected to the carrier-receiving portion, the conduit having a first opening at the carrier-receiving portion;  
wherein the carrier mates with the device at the carrier-receiving portion to form a reservoir with the bottom surface and at least a portion of the conduit and to close the first opening by the bottom surface and to prevent fluid flow through the first opening and wherein the device covers at least a portion of the bottom surface of the carrier from the reservoir.

101. (Withdrawn): An extraction unit comprising:  
a carrier having a bottom surface; and  
a device adapted for mating with the carrier, the device having;  
a carrier-receiving portion at a first end; and  
a conduit interconnected to the carrier-receiving portion;  
wherein the device mates with the carrier at the carrier-receiving portion to form a reservoir and wherein the device covers at least a portion of the bottom surface of the carrier from the reservoir; and  
wherein the bottom surface of the carrier has extending features and the device covers the extending features.

102. (Withdrawn): An extraction unit comprising:  
a carrier having a bottom surface; and  
a device adapted for mating with the carrier, the device having;

a carrier-receiving portion at a first end; and

a conduit interconnected to the carrier-receiving portion;

wherein the device mates with the carrier at the carrier-receiving portion to form a reservoir and wherein the device covers at least a portion of the bottom surface of the carrier from the reservoir; and

wherein the bottom surface of the carrier has extending features and the device covers the extending features; and

wherein the extending features comprise one or more stand-offs or spacers.

103. (Withdrawn): An extraction unit comprising:

a carrier having a bottom surface; and

a device adapted for mating with the carrier, the device having;

a carrier-receiving portion at a first end; and

a conduit interconnected to the carrier-receiving portion;

wherein the device mates with the carrier at the carrier-receiving portion to form a reservoir and wherein the device covers at least a portion of the bottom surface of the carrier from the reservoir; and

wherein the bottom surface of the carrier has a transfer film and the device covers at least a portion of the transfer film.

104. (Previously Presented): The extraction unit of claim 100 wherein the bottom surface of the carrier has a non-specifically transferred material and specifically transferred material transferred to the carrier by microdissection and the device covers at least a portion of the non-specifically transferred material and at least a portion of the specifically transferred material is included in the reservoir.

105. (Withdrawn): An extraction unit comprising:

a carrier, and;



an extraction device for mating with the carrier having a first end and a second end, comprising;

- a carrier-receiving portion at a the first end; and
- a conduit interconnected to the carrier-receiving portion; the conduit extending between a first opening at the carrier-receiving portion and a second opening at the second end; wherein the carrier receiving portion mates with the carrier, closes the first opening, seals the first opening to prevent fluid flow, and forms a reservoir; and
- wherein at least a portion of an extending feature on the carrier is excluded from the reservoir; and
- wherein the extending features comprise one or more stand-offs or a spacers.

106. (Withdrawn): A method for extracting matter on a carrier comprising the steps of:

- providing a carrier having a transfer film;
- transferring matter to the transfer film;
- providing an extraction device with a first end and a second end and a conduit extending between the first and second end, the conduit having a first opening at the first end and a second opening at the second end;
- mating the carrier to the first end of the extraction device to close the first opening of the conduit to form a reservoir that contains at least a portion of the transfer film;
- providing fluid to the reservoir through the second opening to extract matter from the transfer film;
- mating a vessel to the second end of the extraction device; and
- transferring the fluid from the extraction device into the vessel through the second opening.

107. (Withdrawn): The method of claim 106 wherein the step of transferring the fluid from the extraction vessel uses centrifugation.

108. (Withdrawn): The method of claim 106 wherein the step of transferring the fluid from the extraction vessel is performed without separating the carrier or the vessel from the extraction device.